COMPRESSED AIR INDEX

1987

Volume 92 Numbers 1—12

ACADEMICIANS Rate Academia—Editorial Mar : 2
Air Bubbles Cool Reactor ..... Aug : 4
Air-Curtained Protective Jacket ..... Dec : 6
Air Motors And Imagination ..... Oct :24
Air Quality, Indoor ..... Aug :28
Aircraft Icing, Studying ..... Oct : 4
Airline Deregulation ..... Dec : 5
Airplanes, Propfans For ..... May : 8
Airplanes, Recycling ..... Dec : 8
American District Heating ..... Jul :14
America's Cup Race, 1987 ..... Jan :14
America's Scientific Dotage?—Editorial ..... May : 2
Annual Reports, Understanding ..... Jun : 8
Architecture, Supertall Buildings In ..... May :14
Art, Holographic ..... Feb :18
Asbestos, War Against ..... Oct :26
Atomic Structures, Looking Into ..... Apr : 8
Australia, America's Cup Race In ..... Jan :14
Auto-Mation Land, Trouble In ..... Jan :25
Automation, People Problems In ..... Jan :22
Automobile Design In The Fifties ..... Sep :10
Automobile Efficiency, Improving ..... May : 6
Automobile Skidding, Handling ..... Oct : 5
Automobiles, Concept ..... Sep :18
Automotive Finishes In Spray Painting ..... Jul :30

BATTERY Power Plant, First U.S. ..... Jan : 5
Battleships, Recycling ..... Dec : 8
Bitumen, Modified, Roofing With ..... Mar :26
Blackouts, Preventing Power ..... Jan : 4
Boilers, Air Motors On ..... Oct :24
Boston's Transit Revamp ..... Mar : 5
Brewery, Robots In A ..... Jul : 5
Brownouts, Preventing Power ..... Jan : 4
Bubbles, Air, Cool Reactor ..... Aug : 4
Building Construction, Height Limits In .... May :14
Buildings, Sick ..... Aug :28
Bumpers Against Icebergs ..... Sep : 6
Burning Buildings, Studying ..... Nov : 8
Business Breaks With Traditions ..... Feb : 7
Business, Cost Of Starting A New ..... Sep :39
Business, Restructuring ..... Oct : 4
Business Survival ..... Feb : 7

CABLES, Underwater Telephone ..... Sep :30
Calcium Waste, Uses For ..... Mar : 4
Calls Beneath The Sea ..... Sep :30
Camp, NASA's Space ..... Jun : 6
Can Crusher ..... Dec : 6
Car Thieves, Electric Chair For ..... Aug : 4
Cat Cracking, Fiftieth Anniversary Of ..... Dec : 6
Ceramic Powder, Detecting Flaws In ..... Mar : 4
Certification, Fluid Power Engineering ..... Jan : 4
Challenge Down Under, The ..... Jan :14

COMPRESSED AIR INDEX

Change, Predicting ..... Jan : 3
Chemist, Rent A ..... Mar : 4
Cleaning Grates With Water ..... Jun :40
Coal-Burning Gas Turbine ..... Oct : 4
Coal, Gasified, Sulfur Recovery From ..... Sep : 7
Coating Selection: No Easy Task ..... Dec :22
Commercial Heat Storage ..... Aug : 5
Communications, Hazard ..... Jul :22
Companies Going Public ..... Aug :22
Competition And Deregulation—Editorial .. Dec : 5
Competition—Editorial ..... Aug : 2
Composites, Graphite ..... Dec : 7
Compressor Examination ..... Mar :32
Compressor, Process Gas, Overhaul Of ..... Mar :32
Compressors For Homeowners ..... Jun : 7
Compressors, Small, For Utilities ..... Feb : 7
Computerized Hydrogen Plant ..... Dec : 7
Computers In Flight Simulation ..... Nov :26
Concept Cars ..... Sep :18
Constructing Supertall Skyscrapers ..... May :14
Construction Equipment In Jessica McClure Rescue Operations ..... Dec : 7
Consumers Grade Management ..... Feb : 6
Contracts, Government, Applying For ..... Apr : 6
Cooling Reactors With Air Bubbles ..... Aug : 4
Corporate Downsizing ..... May :24
Corporations, Redesigning ..... May :24
Critical Materials ..... Oct : 8
Crushing Cans ..... Dec : 6
Cutting, Waterjet, Robot-Controlled ..... Sep : 6

DE BRAAK, Raising The ..... Mar :16
Decade Of Flash And Fins ..... Sep :10
Decongesting Traffic Congestion ..... Nov :16
Deregulation And Competition ..... Dec : 5
Design, Automobile, In The Fifties ..... Sep :10
Deterministic Metrology ..... Aug :14
Distributors, Industrial ..... Feb :34
District Heating Comeback ..... Jul :14
Diversification, An Industrial Survival Technique ..... Apr :16
Dlubak Studios: An Industrial "American Dream" ..... Jun :18
Do-It-Yourselfers' Compressors ..... Jun : 7
Doublespeak ..... Apr : 2
Down To The Sea In Hopes ..... Mar :16
Downdraft Spray Painting ..... Jul :30
Downsizing Corporations ..... May :24
Drill Bit Efficiency ..... Jun :30
Drill Rigs, Rotary ..... Jun :30
Drilling Efficiency, Measuring ..... Jun :30
Drilling Holes, Power For ..... Jun :36
Drugs In The Workplace ..... Aug : 4

EARTHQUAKE Prediction: A Shaky Science ..... Apr :30
Economic Fallout ..... Oct : 4
Editorials—
Academicians Rate Academia ..... Mar : 2
America's Scientific Dotage? ..... May : 2
Competition ..... Aug : 2
Competition And Deregulation ..... Dec : 5
Environment ..... Nov : 2
Free Enterprise ..... Jun : 5
Garbage ..... Sep : 5
Industrial Prognosis ..... Oct : 2
Language Pollution ..... Apr : 2
Metrication ..... Feb : 3
Predicting Change ..... Jan : 3
Product Liability ..... Jul : 2
Edsel—A Car That Missed The Mark ..... Mar : 8
Efficient Automobiles, Search For ..... May : 6
Egyptian Tombs, Glass Tunnels Protect ..... Jan : 5
Electric Chair For Car Thieves ..... Aug : 4
Electronic And Mechanical Technologies Wed ..... May : 7
Electronics, Micro- ..... May :36
Emily, Hurricane, Flying Into The Eye Of ... Dec :14
Energy, Geothermal, Expanding Potential Of ..... May : 6
Energy Storage, Superconducting Magnetic ..... Mar : 5
Engine, Four-Cylinder ..... Jun : 6
Engine, Turboshaft, Testing ..... Apr : 6
Engineer, Professional, License ..... Apr :24
Engineering Certification, Fluid Power ..... Jan : 4
Engineering Registration Boards, State ..... Apr :29
Enterprise, Financing The New ..... Sep :39
Enterprise, Free ..... Jun : 5
Entrepreneurial Spirit ..... Sep : 5
Environment—Editorial ..... Nov : 2
Environment, Indoor ..... Aug :28
Environmental Problems, Realistic Solutions For ..... Nov : 2
European District Heating ..... Jul :14
European Vision Market ..... Aug : 8
Examination, Compressor ..... Mar :32
Executives In Wilderness Training ..... Jul : 6
Eyes, Industry's Tireless ..... Aug : 6

FACE Mask Protection ..... May : 7
Factory-Built Homes ..... Sep :22
Factory Safety, Nonskid Floors For ..... Sep : 7
Fiber Terminology ..... Feb :11
Fibers, Man-Made ..... Feb : 8
Fifties, Automobile Design In The ..... Sep :10
Financial Aid For New Businesses ..... Sep :39
Financial Reports, Understanding ..... Jun : 8
Financing The New Enterprise ..... Sep :39
Fire Research ..... Nov : 8
Fire, Studying ..... Nov : 8
Flame Analysis ..... Nov : 8
Flash And Fins, Decade Of ..... Sep :10
Flaws, Detecting, In Ceramic Powder ..... Mar : 4
Flight Simulation ..... Nov :26
Floors, Nonskid, For Factories ..... Sep : 7
Fluid Catalytic Cracking, Anniversary Of ... Dec : 6
Fluid Power, Certification In ..... Jan : 4
Flying On The Ground ..... Nov :26
Focus On Rotary Drill Rigs— G. P. Schivley, Jr. ..... Jun :30
Four-Cylinder Engine ..... Jun : 6
Free Enterprise—Editorial ..... Jun : 5

GARBAGE—Editorial ..... Sep : 5
Gas Process Compressor, Overhaul Of ..... Mar :32
Gas Turbine, Coal-Burning ..... Oct : 4
Gas Windows ..... Jul : 5
Gasified Coal, Sulfur Recovery From ..... Sep : 7
Geotextiles ..... Feb :12
Geothermal Energy, Expanding Potential Of ..... May : 6
Glass, High-Tech And Art ..... Jun :18
Glass Tunnels For Egyptian Tombs ..... Jan : 5
Glass, Working With ..... Jun :18
Glovebox Society ..... Sep : 7
Go For The P.E. ..... Apr :24
Going Public: The Agony And The Ecstasy .. Aug :22
Government Contracts, Applying For ..... Apr : 6
Graphite Composites ..... Dec : 7
Grate Cleaning With Water ..... Jun :40
Great Salt Lake, History Of The ..... Jan : 4

Gridlock ..... Nov :16
Ground Water, Dwindling In Europe ..... Feb : 7
Groundwater Purification ..... Jul : 5

HAZARD Communications ..... Jul :22
Heat Storage, Commercial ..... Aug : 5
Heating, District, Makes Comeback ..... Jul :14
Helmholtz Resonator, Volumeter Uses ..... Apr : 6
High On Height ..... May :14
High-Pressure Water As A Cleaner ..... Jun :40
Hole Drilling, Power For ..... Jun :36
Holographic Art ..... Feb :18
Holography: The Image Of Imagination ..... Feb :14
Home-Building In Factories ..... Sep :22
Horizontal Ski Lift ..... Oct : 4
Houses That Machines Build ..... Sep :22
How Strategic Are Strategic Materials? ..... Oct : 8
Human Relations In Automation ..... Jan :22
Hunting Hurricanes ..... Dec :14
Hurricane Emily, Flying Into The Eye Of ..... Dec :14
Hurricane Hunters ..... Dec :14
Hydrogen Plant, Computerized ..... Dec : 7

IAQ ..... Aug :28
Icebergs, Bumpers Against ..... Sep : 6
Icing On Aircraft, Studying ..... Oct : 4
Images, Holographic ..... Feb :14
Indoor Air Quality ..... Aug :28
Industrial Coatings ..... Dec :22
Industrial Designs That Failed ..... Mar : 8
Industrial Distributors ..... Feb :34
Industrial Prognosis—Editorial ..... Oct : 2
Industrial Survival, Techniques For ..... Apr :16
Industry's Supermarket ..... Feb :34
Industry's Tireless Eyes ..... Aug : 6
Infrastructure Repair, Boston's ..... Mar : 5
Inspecting Underwater Structures ..... Oct : 5
Interferometry ..... Feb :16
Into The Eye Of Emily ..... Dec :14

JACKET, Protective, With Air Curtain ..... Dec : 6
Jessica McClure Rescue ..... Dec : 7
Journey Into Smallness, A ..... Apr : 8

KING Cotton's Successors ..... Feb : 8

LAMPS For Lasers ..... Apr : 7
Language Pollution—Editorial ..... Apr : 2
Lasers, Lamps For ..... Apr : 7
Leading Edge Of Metallurgy, The ..... Jan :28
Liability, Product ..... Jul : 2
Lift, Horizontal Ski ..... Oct : 4
Link Trainer ..... Nov :26
Living, Standard Of ..... Mar : 4
Lowering The Great Salt Lake ..... Jan : 6

MACHINE-Built Houses ..... Sep :22
Machine Vision ..... Aug : 6
Magnetic Energy Storage ..... Mar : 5
Mail Courier System, Mailstar Satellite ..... Apr : 6
Mailstar—Mail Courier System Via Satellite ..... Apr : 6
Management, Consumers Grade ..... Feb : 6
Man-Machine Interface ..... Jan :22
Man-Made Fibers ..... Feb : 8
Marine Salvage ..... Mar :16
Mask, Face, Protection ..... May : 7
Materials, Critical ..... Oct : 8
Materials Handling, Robotic ..... Aug :11
Materials, Stockpiling Critical ..... Oct :13
Materials, Strategic ..... Oct : 8
Measuring Our Standard Of Living ..... Mar : 4
Mechanical And Electronic Technologies Wed ..... May : 7
Mechatronics ..... May : 7
Meixel, G. D.—State Of Metric Transition, The ..... Feb :25
Membrane Roofing Materials ..... Mar :26
Memories, Metals With ..... Feb : 6
Metallurgical Coatings ..... Dec :22
Metallurgy, Leading Edge Of ..... Jan :28
Metallurgy, Powder ..... Jan :28
Metallurgy, Rapid Solidification ..... Jan :28
Metals With Memories ..... Feb : 6
Metrication—Editorial ..... Feb : 3
Metrics, Status Report About ..... Feb :25
Metrology, Deterministic ..... Aug :14
Microelectronics ..... May :36
Microscope For Subatomic World ..... Apr : 8
Microscope, Scanning Tunneling ..... Apr : 8
Missing The Mark ..... Mar : 8
Modified Bitumen Roofing ..... Mar :26

NASA Space Camp ..... Jun : 6
"New Coke" Misses The Mark ..... Mar : 8
Noise Suppression Aboard Voyager ..... Aug : 5
Nonskid Floors For Factories ..... Sep : 7

OFFICE On Rails, Swedish ..... Sep : 6
Offshore Platforms, Protecting, From Icebergs ..... Sep : 6
Oil Patch, Survivors In The ..... Apr :16
OSHA Update ..... Jul :22
Overhaul Of Refinery Compressor ..... Mar :32
Overhead Investment ..... Mar :26

PAINTING, Downdraft Spray ..... Jul :30
Painting Perfection ..... Jul :30
People Problems in Automation ..... Jan :22
Personnel Carrier ..... Jan : 4
Petroleum Industry Marks Anniversary Of Cat Cracking ..... Dec : 6
Phone Cables, Underwater ..... Sep :30
Powder, Ceramic, Detecting Flaws In ..... Mar : 4
Powder Coatings ..... Dec :22
Powder Metallurgy ..... Jan :28
Power Outage, Preventing ..... Jan : 4
Power Plant, First U.S. Battery ..... Jan : 5
Power To Drill A Hole ..... Jun :36
Predicting Change—Editorial ..... Jan : 3
Predicting Earthquakes ..... Apr :30
Process, Gas, Compressor, Overhaul Of ..... Mar :32
Product Innovation, An Industrial Survival Technique ..... Apr :16
Product Liability—Editorial ..... Jul : 2
Production Lines Use X Rays ..... May :30
Products That Were Losers ..... Mar : 8
Professional Engineer License, Obtaining A ..... Apr :24
Prometheus' Gift, Studying ..... Nov : 8
Propeller, Return Of The ..... May : 8
Propfans For Airplanes ..... May : 8
Propulsion Systems For Airplanes ..... May : 8
Protection With Face Masks ..... May : 7
Protective Jacket With Air Curtain ..... Dec : 6
Pulling The Plug On The Great Salt Lake ..... Jan : 6
Purification, Groundwater ..... Jul : 5

QUALIFIED Emptiness ..... Oct :16
Quality Control Through Measurements ..... Aug :14
Quality Control With X Rays ..... May :30

COMPRESSED AIR INDEX

RADIATION-Curable Coatings ..... Dec :22
Rails, Office On ..... Sep : 6
Raising the *De Braak* ..... Mar :16
Rapid Solidification Metallurgy ..... Jan :28
Reactor Cooling ..... Aug : 4
Recovering Sulfur From Gasified Coal ..... Sep : 7
Recycled Weapons ..... Dec : 8
Redesigning The Corporation ..... May :24
Refinery Compressor Overhauled ..... Mar :32
Registration Boards, Engineering, State ..... Apr :29
Rent A Chemist ..... Mar : 4
Rescue Of Jessica McClure ..... Dec : 7
Restructuring Business ..... Oct : 4
Return Of The Propeller ..... May : 8
Robot-Controlled Waterjet Cutting ..... Sep : 6
Robot Vision ..... Aug : 9
Robots Ir A Brewery ..... Jul : 5
Robots, Small, In European Industry ..... Jan : 4
Robotic Materials Handling ..... Aug :11
Roofing With Modified Bitumen ..... Mar :26
Rotary Drill Rigs ..... Jun :30
Roughing It ..... Jul : 6

SAFETY, Business Sense ..... Jul :26
Safety In Factories, Nonskid Floors For ..... Sep : 7
Safety: Workplace, Reviewed ..... Jul :22
Salt Lake, Lowering The Level Of ..... Jan : 6
Salvage, Marine ..... Mar :16
Satellite Mail Courier System ..... Apr : 6
Scanning Tunneling Microscope ..... Apr : 8
Schivley, G. P., Jr.—Focus on Rotary Drill Rigs ..... Jun :30
Science, A Shaky: Earthquake Prediction ..... Apr :30
Scientific Dotage, Is America In Its? ..... May : 2
Screen, Solar, All-Season ..... Apr : 6
Scuba Tank Flaws, Spotting ..... Jun : 6
Shaky Science, A: Earthquake Prediction ..... Apr :30
Sick Buildings ..... Aug :28
Simulating Flight ..... Nov :26
Skidding Automobiles, Handling ..... Oct : 5
Ski Lift, Horizontal ..... Oct : 4
Skyscrapers, Upper Limits For ..... May :14
Smallness, A Journey Into ..... Apr : 8
Snoring, Preventing ..... Jan : 4
Society, Glovebox ..... Sep : 7
Solar Screen, All-Season ..... Apr : 6
Soot, Theory Of ..... Nov : 8
Space Camp, NASA's ..... Jun : 6
Spark Plug, See-Through ..... Feb : 6
Spray Painting, Downdraft ..... Jul :30
Standard Of Living, Measuring Our ..... Mar : 4
State Engineering Registration Boards ..... Apr :29
State Of Metric Transition, The —G. D. Meixel ..... Feb :25
Strainers, Water, Eleven-Ton ..... Jul : 4
Strategic Materials ..... Oct : 8
Structures, Underwater, Inspecting ..... Oct : 5
Studying Prometheus' Gift ..... Nov : 8
Substance Abuse Detection, Responsibility In ..... Aug : 4
Sulfur Recovery From Gasified Coal ..... Sep : 7
Superconducting Magnetic Energy Storage .. Mar : 5
Superconductors, Warm ..... Jul : 4
Supermarket For Industry ..... Feb :34
Survival Techniques, Executives Learn ..... Jul : 6
Survivors In The Oil Patch ..... Apr :16

TANK Flaws, Spotting, Scuba ..... Jun : 6
Tanks, Recycling ..... Dec : 8
Telephone Lines Under The Oceans ..... Sep :30
Temporary Help, Scientific ..... Mar : 4
Testing, Turboshaft Engine ..... Apr : 6
Textiles, Man-Made ..... Feb :12
Thieves, Car, Electric Chair For ..... Aug : 4
Tombs, Egyptian, Glass Tunnels Protect ..... Jan : 5
Traditions, Business Breaks With ..... Feb : 7
Traffic Congestion ..... Nov :16
Train Carries Moving Office ..... Sep : 6
Training Executives In The Wilderness ..... Jul : 6
Trans-Oceanic Telephone Lines ..... Sep :30
Transportation, Improvement In Boston's ... Mar : 5
Treasure, Recovering Underwater ..... Mar :16
Trimming Down, An Industrial Survival Technique ..... Apr :16
Trouble In Auto-Mation Land ..... Jan :25
Tunnels, Glass, For Egyptian Tombs ..... Jan : 5
Turbine, Gas, Coal-Burning ..... Oct : 4
Turboshaft Engine Testing ..... Apr : 6

ULTRASONIC Detection Of Metallurgical Flaws ..... Mar : 4
Understanding Financial Reports ..... Jun : 8
Underwater Structures, Inspecting ..... Oct : 5
Underwater Telephone Cables ..... Sep :30
Underwater Treasure, Recovering ..... Mar :16
Utilities Use Of Small Compressors ..... Feb : 7

VACUUM ..... Oct :16
Vacuum Pumps, Outline Of ..... Oct :24
Vacuum Theory, Early ..... Oct :18
Vision, Machine ..... Aug : 6
Vision Market In Europe ..... Aug : 8
Vision, Robot ..... Aug : 9
Volumeter Uses Helmholtz Resonator ..... Apr : 6
Voyager Flight, Noise Suppression On ..... Aug : 5

WARM Superconductors ..... Jul : 4
Waste, Calcium, Uses For ..... Mar : 4
Water: A Grate Cleaner ..... Jun :40
Water, Ground, Dwindling In Europe ..... Feb : 7
Water, High-Pressure, For Cleaning ..... Jun :40
Water Strainers, Eleven-Ton ..... Jul : 4
Waterjet Cutting Glass ..... Jun :18
Waterjet Cutting, Robot-Controlled ..... Sep : 6
Weapons, Recycled ..... Dec : 8
Wilderness Training For Executives ..... Jul : 6
Windows, Gas Barrier For ..... Jul : 5
Workplace Drugs ..... Aug : 4
Workplace Safety, Mixed Reviews About .... Jul :22

X RAYS In Quality Control And On The Production Line ..... May :30

YACHT Racing In Australia ..... Jan :14